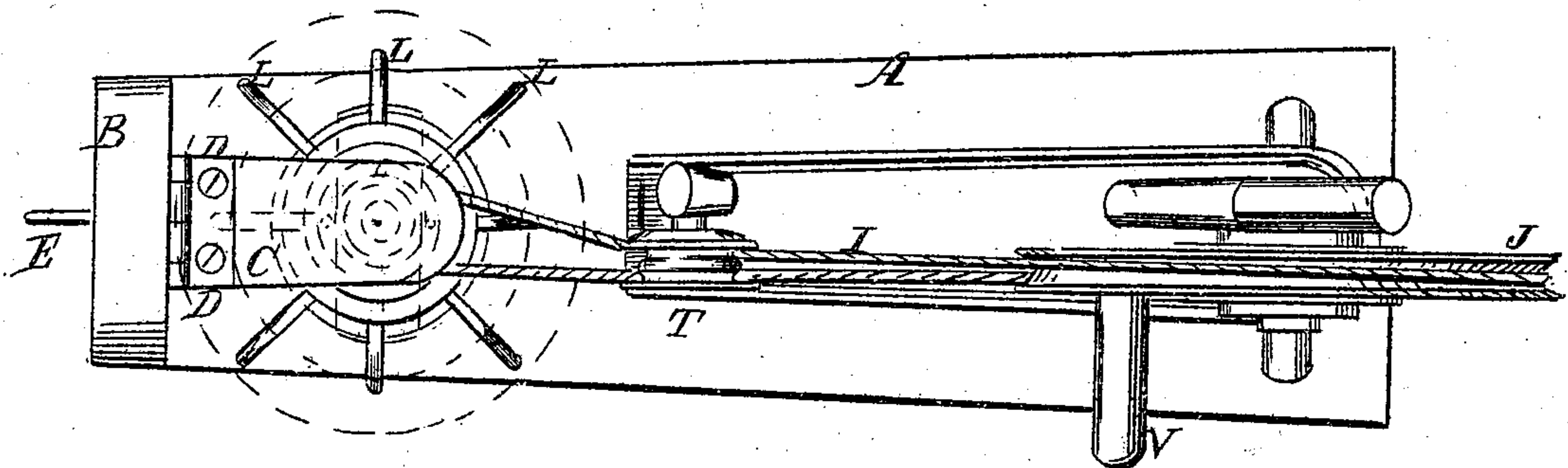
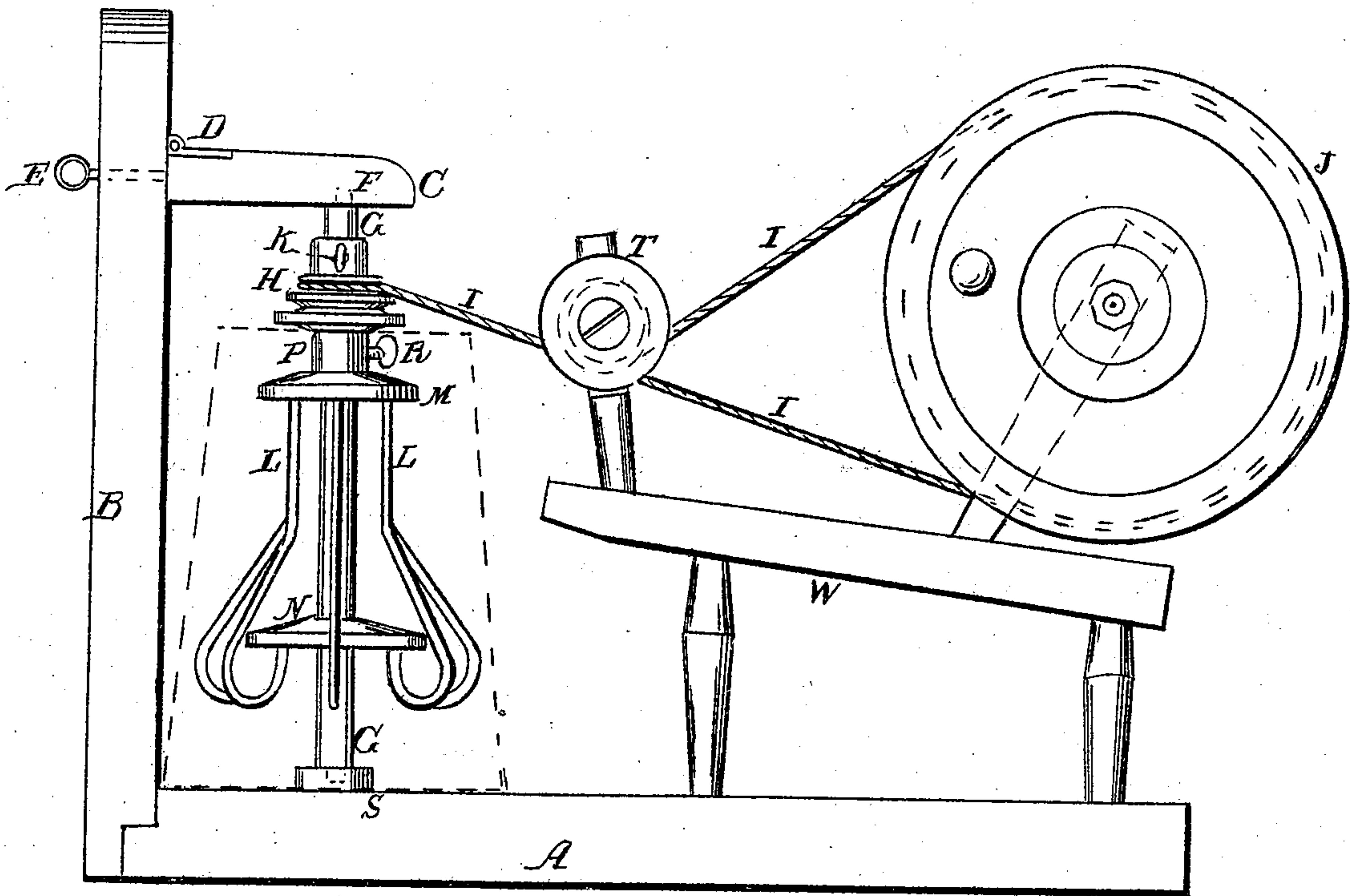


B. N. Harris,

Rotary Churn.

No. 92,308.

Patented July 6, 1869.



Witnesses

J. W. Farley

D. M. Stoner

B. N. Harris

By his Atty

J. F. Reigart

UNITED STATES PATENT OFFICE.

B. N. HARRIS, OF TALBOTTON, GEORGIA.

IMPROVEMENT IN CHURNS.

Specification forming part of Letters Patent No. 92,308, dated July 6, 1869.

To all whom it may concern:

Be it known that I, B. N. HARRIS, of Talbotton, county of Talbot, State of Georgia, have invented new and useful Improvements in Churns; and I do hereby declare the following to be an exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, making a part of this specification, in which—

Figure 1 represents a side elevation of the churn with its operating devices and improvements; Fig. 2, a top view of the same.

The nature of my invention consists in the construction and combination of the operating devices, when arranged with the adjustable arm hinged to the side or partition wall of a house.

A represents a platform or floor of the house that supports the devices, and B represents the wall or side post of a house, to which the adjustable arm C is attached by a hinge or suitable fastening, D, and thumb-screw or bolt E, the arm having a cavity or socket on its under side as a box for the journal F of the vertical shaft G to revolve in and to hold the shaft in its upright position, the upper end of the shaft having a graduated pulley-wheel, H, for the belt or cord I to fit on, so that the belt can be tightened or loosened when required and to suit the height of the wheel J. The

pulley H is adjusted and tightened by the thumb-screw K to the shaft G.

The dashers L are formed of thick wire or iron rods, attached to an upper and lower disk, M N, the upper disk being attached to a cylinder, P, that surrounds the shaft G, and has a thumb-screw, R, by which the dasher is raised or lowered and adjusted to suit the quantity of milk in an upright churn of any shape. The shaft G revolves in an ordinary step, S, attached to the base of a churn intended to rest upon the platform A.

The pulley T assists in keeping the belt I in its proper position, and the wheel J is operated by the crank V, that drives the belt I, that revolves the pulley H, and that operates the dashers L.

The bench W, that supports the wheels J and T, is intended to be movable and adjustable.

What I claim as my invention, and desire to secure by Letters Patent, is—

The dashers L, adjustable disks M N, shaft G, pulley H, and hinged arm C, all constructed and arranged to operate as herein described, and for the purpose set forth.

B. N. HARRIS.

Witnesses:

JOHN A. BOSWELL,
J. H. MANNA.